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Page 1 saeed

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=>

Uploading C:\Program Files\Stnexp\Queries\10070281.str

chain nodes : 11 17 18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 21 22 23

chain bonds :

2-12 7-11 8-18 10-21 15-17 18-19 18-20

ring bonds :

Page 2 saeed

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-16 13-14 14-15 15-16 21-22 21-23 22-23

exact/norm bonds :

2-12 5-7 6-10 7-8 7-11 8-9 9-10 10-21 12-13 12-16 15-17 21-22 21-23 22-23

exact bonds :

8-18 13-14 14-15 15-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 18-19 18-20

isolated ring systems :

containing 12 :

## Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:Atom 22:Atom 23:Atom

#### L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 15:21:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1665 TO ITERATE

100.0% PROCESSED 1665 ITERATIONS

SEARCH TIME: 00.00.01

92 ANSWERS

BLANCH TIME: 00.00.01

L2 92 SEA SSS FUL L1

Page 3 saeed

=> s 12 full

FULL SEARCH INITIATED 15:24:37 FILE 'REGISTRY'

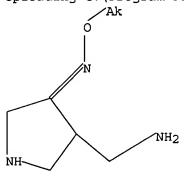
FULL SCREEN SEARCH COMPLETED - 1665 TO ITERATE

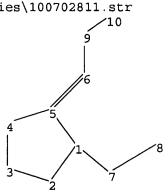
100.0% PROCESSED 1665 ITERATIONS 92 ANSWERS

SEARCH TIME: 00.00.01

92 SEA SSS FUL L1 L3

Uploading C:\Program Files\Stnexp\Queries\100702811.str





chain nodes : 6 7 8 9 10 ring nodes : 1 2 3 4 5 chain bonds :

1-7 5-6 6-9 7-8 9-10

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

2-3 3-4 5-6 6-9 7-8 9-10

exact bonds : 1-2 1-5 1-7 4-5 isolated ring systems : containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS

L4STRUCTURE UPLOADED

=> s 14

SAMPLE SEARCH INITIATED 15:25:01 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -24 TO ITERATE

100.0% PROCESSED

24 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

Page 4 saeed

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

187 TO 773

PROJECTED ANSWERS:

2 TO 124

L5

2 SEA SSS SAM L4

=> s 14 full

FULL SEARCH INITIATED 15:25:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 580 TO ITERATE

100.0% PROCESSED 580 ITERATIONS

62 ANSWERS

SEARCH TIME: 00.00.01

L6

62 SEA SSS FUL L4

=> file caplus

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ENTRY SESSION

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485.71 485.92

FILE 'CAPLUS' ENTERED AT 15:25:16 ON 15 SEP 2005
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FILE COVERS 1907 - 15 Sep 2005 VOL 143 ISS 12 FILE LAST UPDATED: 14 Sep 2005 (20050914/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12 and 16

348 L2

20 L6

L7 14 L2 AND L6

=> d ibib abs hitstr tot

L7 ANSWER 1 OF 14
ACCESSION NUMBER:
DOCUMENT NUMBER:
111LE:
AUTHOR(S):
Synthesis of carbon-14 labeled gemifloxacin
Synthesis of Carbon-14 labeled gemiflox

PUBLISHER: DOCUMENT TYPE: LANGUAGE: AB A new anti HENT TYPE: Journal
UAGE: English
A new antibacterial agent gemifloxacin was labeled with cerbon-14 for studies of pharmacokinetics and metabolism, the label was located in

position
3 of the quinclone ring system. The overall radiochem, yield of the
11-step synthesis, starting from [2-14C] sodium acetate was 16.6%, and the
radiochem. purity 97.5%.

IT 215229-16-6

215229-10-0 RL: RCT (Reactant); RACT (Reactant or reagent) (synthesis of carbon-14 labeled gemifloxacin from [2-14C]sodium acctate) 215229-16-6 CAPLUS

3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

840475-05-0P

840475-05-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(synthesis of carbon-14 labeled gemifloxacin from [2-14C]sodium
acctate)
840475-05-0 CAPLUS
1,8-Naphthyridine-3-14C-3-carboxylic acid, 7-[(4E)-3-(aminomethyl)-4(methoxylmino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

(Continued) L7 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

840475-06-1P
RL: SPN (Synthetic preparation), PREP (Preparation)
(synthesis of carbon-14 labeled gemifloxacin from [2-14C]sodium

acetate)
840475-06-1 CAPLUS
1,8-Naphthyridine-3-14C-3-carboxylic acid, 7-[(4E)-3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monomethanesulfonate (9CI) (CA INDEX NAME)

CRN 840475-05-0 CMF C18 H20 F N5 O4

Double bond geometry as shown.

$$\mathsf{HO}_2\mathsf{C}^{\mathsf{1}}\mathsf{C} \mathsf{C} \mathsf{M} \mathsf{e}$$

2 CM

CRN 75-75-2 CMF C H4 03 S

L7 ANSWER 2 OF 14
ACCESSION NUMBER:
DOCUMENT NUMBER:
1111E:
2004:902347 CAPLUS
141:379800
Process for preparing 4-aminomethyl-3-alkoxyiminopyrrolidine methanesulfonates from N-protected 4-cyano-3-oxopyrrolidines and (halo)alkoxyamines.
Hwang, Gyo-Hyuni Kim, Yeong-Daei Nam, Hyuni Chang, Jay-Hyuni Kim, Yeong-Daei Nam, Hyuni Chang, Kyung-Heer Lee, Jae-Sungi Noh, Hyun-Kuk LG Life Sciences Ltd., S. Korea
PCT Int. Appl., 30 pp.
CODEN: PIXKD2
DOCUMENT TYPE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT	NO.			KIN	D	DATE			APPL	CAT	ION :	NO.		D.	ATE		
						-									-			
WO	2004	0921	29		A1		2004	1028	1	WO 2	004-	KR47	6		2	0040	306	
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW.	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK.	DM,	DZ,	EC.	EE,	EG.	ES,	FI,	GB,	GD,	
		GE.	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG.	KP.	KZ,	LC,	LK,	
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	NO,	
		NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	sc,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	
		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AΖ,	
		BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FI.	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT.	RO,	SE,	SI,	
		SK.	TR.	BF.	BJ.	CF.	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML.	MR,	NE.	SN,	
		TD,	TG															
ORIT	Y APP	LN.	INFO	. :						KR 2	003-	1446	9	- 2	A 2	0030	307	
ER S	OURCE	(S):			CAS	REAC	T 14	1:37	9800	, MA	RPAT	141	:379	800				

Title compds. [I; R = (halo)alkyl], were prepared by treatment of 4-cyano-3-cxopyrrolidines (II; P = protecting group) with a (halo)alkoxyamine (salt) to give the protected oxime-nitriles which were treated with MesOSIM followed by catalytic hydrogenation. Thus, N-BOC-4-cyano-3-cxopyrrolidine was stirred 5 h with MeoNRJ:HCl and pyridine in MeOH to give 92.8 h -BOC-4-cyano-3-methoxyiminopyrrolidine. The latter was refluxed 30 min. with MesOSH in MeOH to give 98.8 4-cyano-3-methoxyiminopyrrolidine methanesulfonate. This was hydrogenated in MeOH over Pd/C at 25 and 500 psig H2 to give 23.18 4-aminomathyl-3-methoxyiminopyrrolidine methanesulfonate. 329101-36-4P
RL: HMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation); RACT (Reactant or reagent) (preparation of aminomethyls)koxyiminopyrrolidine methanesulfonates from

L7 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Copyright 2005 ACS on S

CRN 284474-14-2 CMF C6 H13 N3 O

Double bond geometry as shown.

CM 2

IT

173463-14-6P 210353-53-0P 210353-56-3P
RL: SPN (Synthetic preparation) PREP (Preparation)
(preparation of aminomethylalkoxyiminopyrrolidine methanesulfonates from
protected cyanooxopyrrolidines and alkoxyamines)
175463-14-6 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4(methoxyimino)-1-pyrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(SCI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

CH 1

CRN 175463-14-6 CMF C18 H20 F N5 O4

Double bond geometry as shown.

2

CRN 75-75-2 CMF C H4 03 5

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

(Continued)

L7 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

210353-53-0 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monomethanesulfonate (9CI) (CA INDEX NAME)

Double bond geometry as shown.

2 œ

CRN 75-75-2 CMF C H4 03 S

210353-56-3 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(methoxyimino)-1pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
monomethanesulfonate, hydrate (2:3) (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
141:381357

TITLE:
Synthesis of the Intermediate of Gemifloxacin by the Chemoselective Hydrogenation of 4-Cyano-3-methoxyimino-1-(N-tert-butoxycarbonyl)pyrrolidine. Part 2. The Palladium Catalysts in Acidic Media

AUTHOR(S):
AUTHOR(S):
BOLD AND ANSWER SOURCE:

CORPORATE SOURCE:

CORPORATE SOURCE:

Department of Chemical Engineering and School of Environmental Engineering, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, S. Korea

Organic Process Research & Development (2004), 8(5), 788-795

COUNCE:

PUBLISHER:
AMBURGES:
CONDEN: OPROPER ISSN: 1083-6160

American Chemical Society
Journal
LANGUAGE:
CANDERC 141:381357

OURSING OF STREET A Development (2004), 8(5), 788-795

CODEN: OPROPEN ISSN: 1083-6160

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOUNCE(S): English

OTHER SOUNCE(S): English

OTHER SOUNCE(S): English

AB Chemoselective hydrogenation of 4-cyano-3-methoxyimino-1-(N-tertbutoxycarbonyl)pyrrolidine schaesulfonate (AMPM), the key intermediate for gemificatain, was investigated over Pd catalysts with in situ acid protection. Addition of more than 1.6 equiv of acidic protons for CHBP was found to drastically elevate both the reaction rate and selectivity to 4-aminomethyl-3-Z-methoxyminno-1-(N-tert-butoxycarbonyl)pyrrolidine (Z-AMBP) over Pd catalyst with a complete suppression of the major side reaction to 4-cyano-3-amino-1-(N-tert-butoxycarbonyl)-3,-d-pyrroline (CABP). Methanol as the organic solvent was found to increase the hydrogenation rate greatly compared to other solvents with a negligible decrease of selectivity. The leaching of Pd by acid and consequent accumulation of Pd ion in the reaction mixture was negligible in CMBP hydrogenation. The novel process of chemoselective CMBP hydrogenation in acidic media over Pd catalysty was thus much simpler yet more efficient compared to the conventional one. The whole AMPM process time starting from 1-(N-tert-butoxycarbonyl)-4-cyanopyrolidine-3-one (BCPO) could be reduced by at least approx. 15 h which would result in a great reduction of materials such as catalysts, (t-Eoc)20, and solvent. Addn., reduction of reaction steps improved the overall yield of AMPM significantly.

Employment of methnesulfonic acid as an acidic agent in the hydrogenation step silvewed an environmentally benign pathway to AMPM by omission of a neutralization step vith an extra reduction in process time and materials consumed.

neutralization step with an extra reduction in process time and materializonsumed.

173463-14-6F, Gemifloxacin 329181-36-4F
RI: IMF (Industrial manufacture); PREF (Preparation)
(synthesis of intermediate of gemifloxacin by chemoselective hydrogenation of cyanomethoxyimino tertbutoxycarbonylpyrolidine)
175463-14-6 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-cxo-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

329181-36-4 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, (32)-,
dimethaneoulfonate (9CI) (CA INDEX NAME)

Double bond geometry as shown.

CM 2

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

The invention relates to a process for preparing acid salts of gemifloxacin (1), a known quinolone-type antibiotic agent having potent antimicrobial activity. The process provides advantages such as simplicity of process, improvement of productivity, improvement of yield, and the like, by reducing a conventional three-step process to two steps. More specifically, by using a Schiff base-protected intermediate as the product of the first step, and its concomitant hydrolysis during salt formation in the second step, a secondary anine byproduct is avoided, and the normal third step (recrystm.) can be omitted, leading to higher yields and purity. The claimed invention involves preparation of I-HA (HA - organic or inorg, acid) in two steps. In the first step, activated naphthyridine derivs. Il react with (aminomethy) pyrrolidine derivative salts III-2HX and carbonyl compds. RICON2 in an aqueous and/or organic solvent in the ence

and carbomyl compds. RICOR2 in an aqueous and/or organic solvent in the presence of an organic base, to give Schiff base-protected intermediates IV [wherein: R = Cl, F, Br, Iodo, MeSO2, PHECHESO2, X = Cl, Br, I, CF3COO, MeSO3, PHECHESO3, NESO4, RI, RZ = H, (un)asturated (cyclo)alkyl, aromatic group optionally substituted by alkyl, alkoxy, OH, cyano, or halo; or RIR2 form a ring). In the second step, treatment of IV with acids HA in an aqueous and/or organic solvent gives simultaneous deprotection and salt formation to yield I:HA. Six examples of the first step, and two examples of the second step are given. In the first step, the preferred carbomyl compound is bensaldehyde; in terms of cost and stability. The preferred temperature range is 20-30° in view of reaction rate, yield, and purity. The preferred base is ELTN in terms of cost and syleid. High-purity IV may be produced in > 900 yield. In the second step, the preferred solvent is aqueous isopropanol in view of yield and purity. The most suitable acid HA

MeSO3H, and the preferred temps. are 40-50° for addition of the acid, and 0-20° thereafter. Compared to the prior art, yields of I-HA are increased from about 65% to \$80%. The process can also be applied to other quinolone antibiotics with structures similar to that of I. For instance, reaction of III-2MeSO3H in aqueous MeCN at

L7 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:837086 CAPLUS
DOCUMENT NUMBER: 139:337960
IMPROVED to 199:337960
IMPROVED to 199:33796

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		APPLICATION NO.				
WD 2003087100	A1 20031023	WO 2003-KR683	20030404			
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, B2	Z, CA, CH, CN,			
CO, CR, CU,	CZ, DE, DK, DM,	DZ, EC, KE, ES, FI, GI	B, GD, GE, GH,			
GM, HR, HU,	ID. IL. IN. IS.	JP, KE, KG, KP, KZ, LC	C. LK. LR. LS.			
		MN, MW, MX, MZ, NI, NO				
		SG, SK, SL, TJ, TH, TI				
	UZ, VC, VN, YU,		.,,,,			
		SL, S2, T2, UG, ZM, ZV	7 MM A7 RV			
		BE, BG, CH, CY, CZ, DI				
		LU, MC, NL, PT, RO, SI				
		GN, GQ, GW, ML, MR, NI				
KR 2003080292	A 20031017	KR 2002-18847	20020408			
CA 2481217	AA 20031023	CA 2003-2481217	20030404			
		EP 2003-715805				
R: AT, BE, CH,	DE, DK, ES, FR,	GB, GR, IT, LI, LU, NI	L, SE, MC, PT,			
IE, SI, LT,	LV, FI, RO, MK,	CY, AL, TR, BG, CZ, EI	E, HU, SK			
BR 2003009037	A 20050201	BR 2003-9037	20030404			
US 2005148622	A1 20050707	US 2003-510514	20030404			
PRIORITY APPLN. INFO.:		KR 2002-18847	A 20020408			
		WO 2003-KR683				
OTHER SOURCE(S):	CASREACT 139:33					

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 0-5', first with PhCHO and Et3N, and then with II (R = Cl), followed by warming to room temp., gave IV (RI or R2 = Ph; other = H) in 94.8 yield on a 320-g scale. Hydrolysis of the latter in aq. iso-PrOH by dropwise addn. of MeSO3H at 40-45', followed by cooling and seeding, gave I.MeSO3H in 95.1% yield.

8.1687-84-0By RL: BYP (Byproduct): PREP (Preparation) (avoided byproduct: improved preparation of gemifloxacin acid addition

via Schiff base-protected intermediates)
616927-84-0 CAPLUS
1.8-Naphthyridine-3-carboxylic acid, 7-[3-[[(6-carboxy-8-cyclopropyl-3-fluoro-5,8-dihydro-5-oxo-1,8-naphthyridin-2-yl)amino]methyl]-4(mathoxyimino)-1-pyrclidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

173463-14-6DP, Gemifloxacin, organic and inorg. acid addition salts 210353-93-0P, Gemifloxacin mesylate RL: IMF (Industrial manufacture), SPN (Synthetic preparation), PREP (Preparation) [Improved preparation of gemifloxacin acid addition salts via Schiff base-protected intermediates) 175463-14-6 CAPLUS 1,8-Naphthyridine-3-carboxylic acid, 7-[(4Z)-3-(aminomethyl)-4-(mathoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

210353-53-0 CAPLUS 1,8-Naphthyridine-3-carboxylic acid, 7-[(4Z)-3-(aminomethyl)-4-

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(methoxyimino)-1-pyrrolidimyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
monomethanesulfonste (9CI) (CA INDEX NAME)

CRN 175463-14-6 CMF C18 H20 F N5 O4

Double bond geometry as shown.

CN. 2

CRN 75-75-2 CMF C H4 03 S

II 616927-43-1P, 7-[3-[(Benzylideneamino)methyl]-4-((Z)-methoxyimino)1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine3-carboxylic acid 616827-48-69, 7-[3-[((2-methoxyimino)-1-pyrrolidinyl]-1cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid
61627-55-69, 7-[3-[((2-hydroxybenzylidene)amino]methyl]-4-((Z)methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8naphthyridine-3-carboxylic acid 61627-63-55,
7-[3-[((4-cyanobenzylidene)amino]methyl]-4-((Z)-methoxyimino)-1pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3carboxylic acid 616227-70-49, 7-[3-[((4-Methoxybenzylidene)amino]methyl]-4-((Z)-methoxyimino)-1-pyrrolidinyl]-1cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid
61627-77-1P, 7-[3-[((1-Naphthylmethylene)amino]methyl]-4-((Z)methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8naphthyridine-3-carboxylic acid
RL: RCT (Reactant) SPN (Synthetic preparation), PREP (Preparation), RACT
(Reactant or reagent)

ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

616827-63-5 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-[[(4-cyanophenyl)methylene]amino]methyl]-4-(methoxylmino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.

616827-70-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-7-[(3Z)-3-(methoxyimino)-4-{[[(4-methoxyphenyl)methylene]amino]methyl]-1-pyrrolidinyl]-4-oxo- (SCI) (CA INDEX NAME)

ble bond geometry as described by E or Z.

616827-77-1 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-7[(32)-3-(methoxyria(no)-4-[[(1-naphthalenylmethylene)emino]methyl]-1pyrrolidinyl]-4-oxo- (9CI) (CA INDEX NAME)

Page 9 saeed

L7 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Schiff base-protected intermediates)
RN 616827-43-1 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-7[(3Z)-3-(methoxyimino)-4-I[(phenylmethylene)amino]methyl]-1-pyrrolidinyl]4-oxo- (SC1) (CA INDEX NAME)

Double bond geometry as described by E or 2.

616827-48-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[4Z)-3-[[[42-chlorophenyl]methylene]amino]methyl]-4-(methoxymino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.

616827-56-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-7[(42)-3-[([2-hydroxyphenyl)methylene]anino]methyl)-4-(methoxyimino)-1pyrrolidinyl)-4-oxo- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or 2.

L7 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN Double bond geometry as described by E or 2. (Continued)

197143-35-4, (Z)-3-(Aminomethyl)-4-(methoxyimino)pyrrolidine dihydrochloride 329181-36-4, (Z)-3-(Aminomethyl)-4-(methoxyimino)pyrrolidine methanesulfonate (1:2) 616826-97-2, (Z)-3-(Aminomethyl)-4-(methoxyimino)pyrrolidine dihydrobromide 616827-05-5, (Z)-3-(Aminomethyl)-4-(methoxyimino)pyrrolidine dihydrodide 616827-13-5, (Z)-3-(Aminomethyl)-4-(methoxyimino)pyrrolidine trifluoroacetate (1:2) 616827-27-1, (Z)-3-(Aminomethyl)-4-(methoxyimino)pyrrolidine suplate (1:2) 616827-34-0, (Z)-3-(Aminomethyl)-4-(methoxyimino)pyrrolidine suplate (1:2) RL: RCT (Reactant), RACT (Reactant or reagent) (starting material; improved preparation of gemifloxacin acid addition specific supports the suplate of the suplate (1:2) (starting material; improved preparation of gemifloxacin acid addition specific supports (1:2) (starting material) (starting material

via Schiff base-protected intermediates)
197143-35-4 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, dihydrochloride, (32)-(SCI) (CA INDEX NAME)

$$\begin{array}{c} H \\ N \\ Z \end{array} \quad \text{OMe} \quad .$$

●2 HC1

329181-36-4 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, 0-methyloxime, (3Z)-, dimethanesulfonate (9CI) (CA INDEX NAME)

CRN 284474-14-2 CMF C6 H13 N3 O

Double bond geometry as shown.

L7 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CH 2

616926-97-2 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, dihydrobromide, (32)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

●2 HBr

616827-05-5 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, 0-methyloxime, dihydriodide, (32)-(9C1) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSVER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) Double bond geometry as shown.

616927-34-0 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, (3Z)-, sulfate (1:2) (9CI) (CA INDEX NAME)

CRN 284474-14-2 CMF C6 H13 N3 O

Double bond geometry as shown.

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Page 10 saeed

L7 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

●2 HI

616827-13-5 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, (3Z)-, bis(trifluoroacetate) (9Cl) (CA INDEX NAME)

CRN 284474-14-2 CMF C6 H13 N3 O

Double bond geometry as shown.

$$H_2N$$
 $\frac{H}{2}$ 
 $OMe$ 

CM 2

CRN 76-05-1 CMF C2 H F3 O2

616827-27-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, (32)-, bis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CH 1

CRN 284474-14-2 CMF C6 H13 N3 O

L7 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

L7 ANSWER 5 OF 14
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TLE:
2003:117704 CAPLUS
138:172243
18:172243
Processes for the production of amino-protected derivatives of 4-aminomethylene-pyrrolidin-3-one and/or 4-aminomethylene-pyrrolidin-3-one and/or 4-aminomethylene-pyrrolidin-3-one and/or 4-aminomethylene-pyrrolidin-3-one and/or 4-aminomethylene-pyrrolidin-3-one and/or 5-aminomethylene-pyrrolidin-3-one Anthonylene-pyrrolidin-3-one and/or 5-aminomethylene-pyrrolidin-3-one and/or 5-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-one and/or 5-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene-pyrrolidin-3-aminomethylene Neville SB Pharmco Puerto Rico Inc., USA; LG Chem Investment, PATENT ASSIGNEE(S): Ltd. PCT Int. Appl., 78 pp. CODEN: PIXXD2 SOURCE: DOCUMENT TYPE: LANGUAGE: English 1 FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PRIORITY APPLN. INFO.: WO 2002-GB3585 OTHER SOURCE(S): MARPAT 138:172243 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) CRN 75-75-2 CMF C H4 03 S -снэ 329322-83-0F 329322-84-IF
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (processes for production of amino-protected derivs. of 4-aminomethylene-pyrrolidin-3-one gemifloxacin)
329322-83-0 CARJUS
329322-83-0 (APJUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-methyloxime, dimethanesulfonate (9CI) (CA INDEX NAME) CH 1 CRN 175463-84-0 CMF C6 H13 N3 O CH 2

ANSWER 5 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB The invention provides a process for the production of a compound of formula [I]: wherein P1 and P2, which may be the same or different, are amino protecting groups, which comprises protection of a compound of formula [II] in solution phase continuous operation mode. This confers advantages over batch mode operation. The process is usually conducted in reaction equipment adapted for use in continuous processing mode, for example comprising one or more static mixers or a plug flow reactor. Preferably, the plug flow reactor comprises a jacketed tubular reactor fitted inside with internal mixing elements which continually split and premix the reaction streams promoting mass and heat transfer, whereby a uniform plug flow profile with turbulant fluid flow is achieved. The invention also provides a process for production of the antibacterial compound gemiflowacin or a pharmaceutically acceptable salt and/or hydrate thereof, comprising converting a compound of formula [I].

II 13463-84-0 CAPLUS

III 178463-84-0 CAPLUS

RN 178463-84-0 CAPLUS

NN 178463-8

L7 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

но-з-снз

RN 329322-84-1 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(methoxyimino)-1pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

HO<sub>2</sub>CH<sub>2</sub>-NH<sub>2</sub>

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 14
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:242153
TITLE:
A process for the preparation of pyrrolidino-quinoline-carboxylic acid derivatives (e.g. gemifloxacin) with improved filtration
Kim, Bong Chan
Kim, Bong Chan
Kim, Bong Chan
Kim, Bong Chan
Choi, Hoons Kim, Won Sup
PATENT ASSIGNEE(S):
DOCUMENT TYPE:
LANGUAGE:
PATENT ASSIGNEE (S):
E Chem Investment Ltd., S. Kores; Kim, Yeong Dae;
Choi, Hoons Kim, Won Sup
PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DOCUMENT TYPE:
LANGUAGE:
Patent
English
FAMILY ACC. NUM. COUNT:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT N	io.	KIND	DATE	APPLICATION NO.	DATE
				***************************************	
WO 20010	68649	A1	20010920	WO 2001-KR399	20010314
V:	AE, AG, AL,	AM, AT	, AU, AZ,	BA, BB, BG, BR, BY,	BZ, CA, CH, CN,
	CR, CU, CZ,	DE, DK	, DM, DZ,	EE, ES, FI, GB, GD,	GE, GH, GM, HR,
	HU, ID, IL.	IN. IS	. JP. KE.	KG. KP. KR. KZ. LC.	LK, LR, LS, LT,
	LU, LV, MA,	MD, MG	, MK, MN,	MW, MX, MZ, NO, NZ,	PL, PT, RO, RU,
	SD. SE. SG				
RW:	GH, GM, KE,	LS, MW	, M2, SD,	SL, SZ, TZ, UG, ZW,	AT, BE, CH, CY,
				IE, IT, LU, MC, NL,	
	BJ, CF, CG,	CI, CM	, GA, GN,	GW, ML, MR, NE, SN,	TD, TG
KR 20010	91379	A	20011023	KR 2000-13011	20000315
KR 20030	17475	A	20030303	KR 2002-711999	20020913
PRIORITY APPL	N. INFO.:			KR 2000-13011	A 20000315
OTHER SOURCE (	(5):	CASREA	CT 135:24	2153; MARPAT 135:242	:153
01					

The present invention relates to a novel process for preparing quinoline carboxylic acid antimicrobials I (e.g. gemifloxacin) (2 = CH, CF, CCI, COH, COMe, N, R = H, Me, NH2, R1 = cyclopropyl, Et, substituted-Ph, R2 = H, alkyl, aryl, allyl, R3, R4 = H, alkyl, or together with the N atom to which they are attached form a cycle]. For instance, Et3N, methylcellulose (1.0 weight \* relative to pyrrolidine reactant) and 4-aminomethyl-3-methoxylminopyrrolidine were added sequentially to an ecus AB aqueous

I

L7 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

17

175463-84-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(process for the preparation of pyrrolidino-quinoline-carboxylic acid derivs. (e.g. gemilloxacin) with improved filtration)
175463-84-0 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-methyloxime (SCI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) soln. of 3-carboxy-7-chloro-1-cyclopropyl-6-fluoro-4-oxo-1,4-dibydro[1,8] naphthyridine and allowed to stir at room temp. for 16.5 h. The resulting mixt. was filtered on a glass filter and the product washed. Addn. of the surfactant, methylcellulose, resulted in a faster filtration, 5 min vo. 9 min (scale, 34 - 37 g product). Other process perameters evaluated included sequence of addn. of reagents, variation of reaction temp. and surfactant.
210333-36-39 22922-84-19
RL: IHF [Industrial manufacture], SPN (Synthetic preparation), PREP (Preparation)
[process for the preparation of pyrrolidino-quinoline-carboxylic acid derivs. (e.g. gemifloxacin) with improved filtration)
210353-56-3 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monomethanesulfonate, hydrate (2:3) (SCI) (CA INDEX NAME)

CRN 175463-14-6 CMF C18 H20 F N5 O4

Double bond geometry as shown.

CH 2

CRN 75-75-2 CMF C H4 03 S

329322-84-1 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-{aminomethyl}-4-(methoxyimino)-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 7 OF 14
ACCESSION NUMBER:
DOCUMENT NUMBER:
1711LE:
1712LE:
1

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PA	TENT	NO.			KIN	D	DATE			APP	LICAT	ION	NO.		1	DATE	
	WO		10180															
		W:	ΑE,	AG,	λL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
												FI.						
			ΗU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
												MZ,						
			SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ.	VN.
			YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM				
		RW	: GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AΤ,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF.	BJ.
			CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
	CA	238:	3753 00137			λA		2001	0315		CA 2	2000-	2383	753		2	0000	901
	BR	200	00137	51		Α		2002	0507		BR 2	-000	1375	1		2	0000	901
	ĔΡ	121	(321 (321			A1		2002	0619		EP 2	-000	9587	76		2	0000	901
	EP	121	1321			В1		2004	0714									
		R:	AΤ,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE.	MC.	PT.
			IR.	SI.	T.T.	t.v.	PT.	RO.	MY.	CV	AT.							
	JP	2003	35085 722 050 4321 3574	32		T2		2003	0304		JP 2	2001-	5222	25		2	0000	901
	ΑU	773	722			B2		2004	0603		AU 2	-000	7019	7		2	0000	901
	ΑT	271	050			E		2004	0715		AT 2	-000	9587	76		2	0000	901
	PT	121	1321			Ť		2004	1029		PT 2	-000	9587	76		2	0000	901
	ES	2223	3574			Т3		2005	0301		ES 2	-000	9587	76		2	0000	901
	141	200				~		2002	0601									
			20017	81				2003	0429		ZA 2	2002-	1781			2	0020	304
		104				A1		2005	0527		HIX 2	2002-	1084	62		2	0021	121
			1769			A1		2005	0811		US 2	2003-	6926	40		2	0031	024
1101	RIT	API	LN.	info	.:						GB 1	999-	2091	7		A 1	9990	903
												000-						
												2002-				B1 2	0020	521
HE	3 50	URCE	1(5):			CASI	TAC	T 13	4 . 22	2702		RPAT	124	. 222	702			

OTHER SOURCE(5): CASREACT 134:222702; HARPAT 134:222702

PR

#### L7 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Title compds. I (R = alkyl, haloslkyl) were prepared by reaction of II (X = a leaving atom/group) with III or its salt. Thus, 5.1 mL ELTM was added to 3.05 g II (X = Cl) in 25 mL water at 15-20°, and the mixture was stirred for 20 min, after which 3.86 g 4 - (aminomethyl)-3- (methoxylmino)pyrrolidinium dimethanesulfonate was added, followed by 5 mL water, and the mixture was stirred at 20-25° for 17.75 h to give 4.23 g syn-I (R = Me).
175463-14-69 32918-36-49
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(production of naphthyridine-3-carboxylic acid derivs.)
175463-14-6 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4-(methoxylmino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

329181-36-4 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, (32)-,

ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

СH 2 CRN 75-75-2 CMF C H4 03 5

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L7 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN dimethanesulfonate (9CI) (CA INDEX NAME) (Continued) CH 1 CRN 284474-14-2 CMF C6 H13 N3 O

Double bond geometry as shown.

2

ΙT

210353-53-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(production of naphthyridine-3-carboxylic acid derivs.)
210353-53-0 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4-(methoxylimio)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,monomethanesulfonate (SCI) (CA INDEX NAME)

CRN 175463-14-6 CMF C18 H20 F N5 O4

Double bond geometry as shown.

L7 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:185719 CAPLUS

DOCUMENT NUMBER: 134:222700

ITILE: naphthyridinecarboxylic acid-derivative antibiotics

Grinter, Trevor John; Howie, Simon

SD PRET Int. Appl., 9 pp.

CODEN: TYPE: Patent

EAMGUAGE: EMplish

FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

WO 2001017961

W: AE, AG, AL, AM, CR, CU, CZ, DE

HU, ID, IL, IN

LU, LV, MA, MD

SD, SE, SG, SI

YU, ZA, ZW, AM

RW: GH, GM, KE, L'

DE, DK, ES, F

CF, CG, CI, CI

CA 2383751

BR 2000013750

EP 1212321

R: AT, BE, CH, I

TR 200200548

JP 2003508517

NZ 517601

AU 773698

AT 270671

ES 2223570

NO 2002001043

ZA 2002001779

US 6703512

HK 1046908

US 20018292

US 6803467

PRIORITY APPLN. INFO.: PATENT NO. DATE APPLICATION NO. DATE US 2004-935357 GB 1999-20919 WO 2000-GB3358 US 2002-88149 US 2003-742797 19990903 20000901

OTHER SOURCE(S): MARPAT 134:222700

#### L7 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Quinolonecarboxylic acid-derivative antibiotics (I, R = Cl-4 alkyl, Cl-4 haloalkyl) are prepared in high yield and selectivity by the reaction of fluoroquinolonecarboxylic acids (II, X = leaving group) with 4-(aminomethyl)-3-(alkoxyimino) pyrrolidinium dimethanesulfonates (III). Thus, triethylamine was added to 7-chloro-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid, the mixture stirred and 4-(aminomethyl)-3-(nethoxyimino) pyrrolidinium dimethanesulfonate added, producing 7-(3-aminomethyl-4-syn-methoxyiminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid in 861 yl=6-fluoro-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid in 861 yl=6-fluoro-4-oxo-1,5-fluoro-1,8-naphthyridine-3-carboxylic acid in 861 yl=6-fluoro-4-oxo-1,8-naphthyridine-3-carboxylic acid in 861 yl=6-fluoro-4-oxo-1,8-naphthyridine-3-carboxylic acid in 861 yl=6-fluoro-1,8-naphthyridine-3-carboxylic acid in 861 yl=6-fluoro-1,8-naphthyridine-3

IT 329322-63-0P
RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Reactant or reagent

CRN 175463-84-0 CMF C6 H13 N3 O

#### L7 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

CM. 2

CRN 75-75-2 CMF C H4 03 S

L7 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

2

$$\underset{\text{HO}_2\text{C}}{ \bigvee} \underset{\text{D}}{\overset{\text{N}}{\longrightarrow}} \underset{\text{F}}{\overset{\text{N}}{\longrightarrow}} \underset{\text{CH}_2-\text{NH}_2}{\overset{\text{N}}{\longrightarrow}} \underset{\text{N}}{\overset{\text{N}}{\longrightarrow}} \underset{\text{N}}{\overset{\text{N}}{\longrightarrow}} \underset{\text{N}}{\overset{N}}{\longrightarrow}} \underset{\text{N}}{\overset{\text{N}}{\longrightarrow}} \underset{\text{N}}{\overset{N}} \underset{N}} \underset{\text{N}}{\overset{N}} \underset{\text{N}}$$

329322-85-2 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-{aminomethyl}-4-(methoxyimino)-1pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
monomethanesulfonate (SCI) (CA INDEX NAME)

CM 1

CRN 329322-84-1 CMF C18 H20 F N5 O4

L7 ANSWER 9 OF 14
ACCESSION NUMBER:
DOCUMENT NUMBER:
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
CORPORATE SOURCE:
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CORPORATE SOURCE:
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SOURCE:
CORPORATE SOURCE:

CORPORATE SOURCE:

SOURCE:

Journal of Chromatography, A (2000), 879(2), 113-120

CODEM: JCRARY, ISSN: 0021-9673

PUBLISHER:

Elsevier Science B.V.

Journal

LANGUAGE:

English

AB The enantioners of gemiflowacin mesylate (formerly LE20304a), a new
fluoroquinolone compound with potent in vitro and in vivo antibacterial
profile were resolved on a com. available Crownpak CR chiral stationary
phase (CSP). All of the fluoroquinolones, including gemiflowacin used in
this study, were resolved on Crownpak CR(+) column. These results are the
first reported for the direct separation of the enantiomers of quinolones on
chiral crown ether coated Crownpak CR CSP. The behavior of chromatog.
parameters by the change of mobile phase additives for the resolution of
gemiflowacin was investigated. Also, the effect of structural change of
gemiflowacin mesylate 210353-54-1
204474-12-5 204474-13-3
204474-17-5 204474-14-2 204474-15-3
204474-13-6 204474-24-2 204474-15-3
204474-34-6 204474-34-7

RL: ANT (Analyte) ANST (Analytical study)
(resolution of fluoroquinolones including gemiflowacin by HPLC using
chiral crown ether)

NN 175463-14-6 CAPLUS

CN 1,8-Naphthyridine-3-carboxylic acid, 7-{(4Z)-3-(aminomethyl)-4(methoxyrimino)-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Double bond geometry as shown.

Double bond geometry as shown.

197143-43-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4-(athoxyminion)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

210353-53-0 CAPLUS
1,8-Msphthyridine-3-carboxylic scid, 7-[(42)-3-(aminomethyl)-4(methoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
monomethanesulfonate (9CI) (CA INDEX NAME)

CH 1

CRN 175463-14-6 CMF C18 H20 F N5 O4

Double bond geometry as shown.

CH 2

CRN 75-75-2 CMF C H4 03 S

210353-54-1 CAPLUS
1,9-Naphthyridine-3-carboxylic acid, 7-[(4E)-3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

L7 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

284474-11-9 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(35,42)-3-{aminomethyl}-4-(mathoxyimino)-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

284474-12-0 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(3R,4Z)-3-(aminomethyl)-4(mathoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 284474-14-2 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, 0-methyloxime, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

284474-15-3 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, 0-methyloxime, (3Z,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

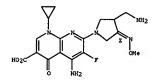
284474-17-5 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, (3Z,4R)- (9CI) (CAINDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

284474-24-4 CAPLUS
1.8-Maphthyridine-3-carboxylic acid, 5-amino-7-[(42)-3-(aminomethyl)-4(methoxylmino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-cxo(9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



284474-25-5 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 5-amino-7-[(3R,42)-3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

284474-26-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 5-anino-7-[{35,42}-3-{aninomethyl}-4-(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

HO2C

284474-29-9 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[(3R,4E)-3-(aminomethyl)-4(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN Double bond geometry as shown.

284474-30-2 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[(35,4E)-3-(aminomethyl)-4-(methoxylinino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

284474-34-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-{{3R,4Z}-3-{aminomethyl}-4-(ethoxyimino)-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry as shown.

284474-35-7 CAPLUS

L7 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1999:576910 CAPLUS DOCUMENT NUMBER: 131:201515 Frocess for preparing a protect

INVENTOR (5):

131:201515
Process for preparing a protected 4aminomethylpyrrolidin-3-one
Moon, Kwang Yul; Xim, Won Sup; Lee, Tae Hee; Chang,
Jay Hyok
LG Chemical Ltd., S. Korea
PCT Int. Appl., 30 pp.
CODEN: PIXX02
Patent
English
1

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT !	10.			KINI	)	DATE	:		API	PLI	CAT	ION	NO			Ε	ATE	
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wo	99449																		
	٧:	AL,	AM,	AT,	ΑU,	AZ,	, ва,	BB,	BG,	BI	٦,	BY,	CA	, a	ı,	CN,	CU,	CZ,	DE,
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		KΡ,	ĸR,	ΚZ,	LC,	LK,	, LR,	LS,	LT,	L	J, :	LV,	MD	, M	3,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	, RU,	SD,	SE,	SC	3,	51,	SK	, s	L,	ŢJ,	TM,	TR,	TT,
		UA,	UG,	US,	UΖ,	VN,	, YU,	ZW,	AM,	A2	Z, ]	BY,	KG	, K	ζ,	MD,	RU,	ΤJ,	TM
	RW:	GH,	GM,	ΚE,	LS,	MW,	, SD,	SL,	SZ,	UC	, :	ZW,	AΤ	, BI	Ζ,	CH,	CY,	DE,	DK,
		ES,	FI,	FR,	GB,	GR,	, IE,	IT,	LU,	MC	:, 1	NL,	PT	, si	ζ,	BF,	ВJ,	CF,	CG,
		CI,	CM,	GΑ,	GN,	GW,	, ML,	MR,	NE,	Sì	τ, :	ΓD,	TG						
ZA	9901	563			A		1999	0906		ZA	19	99-	166	3			1	9990	302
TW	45399	93			В		2001	0911		TW	19	99-	881	031:	18		1	9990	302
CA	23225	40			AA		1999	0910		CA	19:	99-	232	254(	)		1	9990	304
CA	23225	40			С		2004	1130											
AU	99264	133			A1		1999	0920		ΑU	19	99-	264	33			1	9990	304
AU	74249	7			B2		2002	0103											
BR	99016 45399 23229 99266 74249 99086 10681	172			A		2000	1205		BR	19	99-	847	2			1	9990	304
EP	10681	82			A1		2001	0117		ΕP	19	99-	906	566			1	9990	304
EP																			
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	١, :	IT,	LI	, LI	J, '	NL,	SE,	MC,	PT,
		ΙE,	SI,	FI,	RO														
TR	20000	252	6		T2		2001	0321		TR	20	00-	200	0029	526		1	9990	304
JP	20025	053	22		T2		2002	0219		JΡ	200	00-	534	535			1	9990	304
JP	33741	55			B2		2003	0204											
TR	20010	180	D		T2		2002	0422		TR	200	01-	200	1018	300		1	9990	304
NZ	50631	2			Α		2002	0426		NZ	199	99-	506	312			1	9990	304
TR	20010	180	1		T2		2002	0621		TR	200	01-	200	1018	01		1	9990	304
NZ	51677	8			A		2002	1220		NZ	199	99-	516	778			1	9990	304
AT	29737	19			E		2005	0615		AΤ	199	99-	906	566			1	9990	304
NO	20000	042	88		A		2000	1025		NO	200	- 00	4281	9			2	0000	825
US	63070	59			B1		2001	1023		US	200	00~	623	214			2	0000	830
BG	10476	7			A		2001	0531		BG	200	- 00	104	767			2	0000	914
PRIORITY	APPI	N. 3	NFO	. :						KR	199	98-	707	9		- 2	۱ ī	9980	304
										KR	199	98-	436	36			ì	9981	019
TR JP JP TR NZ TR NZ AT NO US BG PRIORITY										WO	199	99-	KR9	•		1	7 1	9990	304
OTHER SC	URCE (	s):			MARP	AT	131:	2015	15								-		

ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
1,8-Maphthyridine-3-carboxylic acid, 7-{(3S,42)-3-(aminomethyl)-4(ethoxyimino)-1-pyrididinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

REFERENCE COUNT:

THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

AB Protected 4-aminomethyl-3-pyrrolidinones I (R = CH2NHP2, P1, P2 = protecting groups) are manufactured by hydrogenating I (R = CN, P1 = same as in

as in

I) in the presence of a Raney-nickel catalyst in a solvent, reacting the resulting aminomethylene derivative with a compound to form P2, and selective reduction of the double bond attached to the ring. This process does not cause formation of an OH group at the 3-position, and the products are useful in the manufacture of quinolone antibiotics. Thus, hydrogenating 20

useful in the manufacture of quinclone antibiotics. Thus, hydrogenating 20

1-{N-tert-butoxycarbonyl}-4-cyano-3-pyrrolidinone in MeOH-NH4OH in the
presence of a Raney-nickel catalyst, reacting intermediate with Li
tert-butoxide in PhMe at 5-10°, adding di-tert-Bu
dicarbonate to complete the reaction, and hydrogenating the 2nd
intermediate in PrOH 24 in the presence of Bu3N and a Pd catalyst gave I
(R = NHCOCMG3, P2 = COCMe3) quant.
213229-16-6P
RL: IHF (Industrial manufacture); PREP (Preparation)
(hydrogenation of cyanopyrrolidinones with Raney nickel in manufacture of
protected aminomathylpyrrolididinones)
215229-16-6 CAPLUS
3-Pyrrolidinone, 4-{aminomethyl}, O-methyloxime, dihydrochloride (9CI)
(CA INDEX NAME)

●2 HC1

175463-14-6P 210353-53-0P
RL: IMF (Industrial manufacture), PREP (Preparation)
(manufacture of derivs. of from protected aminomethylpyrrolidinones)
175463-14-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4-(methoxylin(no)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

210353-53-0 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-{(4Z)-3-{aminomethyl})-4(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dibydro-4-oxo-,
monomethanesulfonate (9C1) (CA INDEX NAME)

Double bond geometry as shown.

2 CM

CRN 75-75-2 CMF C H4 03 S

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) cyclopropylmethyl, alkynyl, 2-haloethyl, methoxymethyl, pyridylmethyl, atyl, alkyn, (substituted) PhCH2, pyridylmethyl, etc., R3, R4 = H, alkyl, R3R4N = ring), were prepd. Thus, 1-cyclopropyl-7-chloro-6-fluoro-4-cxo-1, 4-dihydro-1, 9-naphthyridine-3-carboxylic acid, 4-aminomethylpyrrolidin-3-one 0-methyloxime bistrifluoroacetate, and DBU were refluxed in MeCN to give 85% 7-(4-aminomethyl-3-methoxyliminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-4-cxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid. The latter inhibited Staphylococcus aureus 6538p with a min. inhibitory concn. of x0.008 µm/ml.
175461-38-SP 175461-36-6P 175461-37-7P 175461-38-SP 175461-39-SP 175461-39-P 175

N-O-CH2-Ph

175461-36-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[4-methoxyphenyl)methoxy]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dlhydro-4-oxo- (9C1) (CA INDEX NAME)

Page 17 saeed

L7 ANSWER 11 OF 14
ACCESSION NUMBER:
1999:104541 CAPLUS
130:169355

TITLE:
130:169355
Preparation of 7-(4-aminomethyl-3-methoxyiminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydro-1,9-naphthyridine-3-carboxylic acid and related compounds as antibacteriale.
Hong, Chang Yong; Kim, Young Kwan; Kim, Se Ho; Chang, Jay Hyok; Chol; Hoon; Nam, Do Hyun; Kim, Se Ho; Chang, Jay Hyok; Chol; Hoon; Nam, Do Hyun; Kim, Ae Ri; Lee, Jin Hwa; Park, Ki Sook
PATENT ASSIGNEE(S):
50URCE:
U.S., 67 pp., Cont. of U.S. Ser. No. 490,978.
COODEN: USXCAM
PATENT INFORMATION:
English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5869670	Α	19990209	US 1998-49024	19980327
KR 131999	B1	19980417	KR 1994-13604	19940616
KR 222082	В1	19991001	KR 1994-39915	19941230
KR 222083	B1	19991001	KR 1994-39930	19941230
CN 1114959	A	19960117	CN 1995-107008	19950615
CN 1058010	В	20001101	1990 10:000	13300010
US 5633262	ă	19970527	US 1995-490978	19950615
RU 2120940	Ĉì	19981027	RU 1995-109449	19950615
US 5776944		19980707	US 1997-825992	19970404
	A			
US 5962468	A	19991005	US 1998-188063	19981109
PRIORITY APPLN. INFO.:			KR 1994-13604	A 19940616
			KR 1994-39915	A 19941230
			KR 1994-39930	A 19941230
			US 1995-490978	A1 19950615
				A2 19970404
				A1 19980327
APPLIED COLLEGE (A)		120.160266	05 1998-49024	MI 19960321
OTHER SOURCE(S):	MARPAT	130:168355		

OTHER SOURCE(S):

$$\underset{R^{3}R^{4}N}{\text{F}} \underset{R^{2}ON}{\overset{\circ}{\bigvee}} \underset{R^{1}}{\overset{\circ}{\bigvee}} co_{2}H$$

Title compds. [I; R = H, Me, amino; Q = CH, CF, CCl, COH, CMe, COMe, N; R1 = cyclopropyl, Et, fluorophenyl; R2 = H, alkyl, cyclopropyl,

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

175461-37-7 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[[4-(1,1-dimethylethyl)phenyl]methoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9Cl) (CA INDEX NAME)

175461-38-8 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(4-fluorophenyl)methoxy]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

175461-39-9 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(4-nitrophenyl)methoxy]mino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175461-40-2 CAPLUS
1,8-Naphthyridina-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(2-cyanophenyl)methoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

17 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 175461-41-3 CAPLUS
CN 1.8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(1,3-benzodixool-5-y-laethoxy)imino]-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dibydro-4-oxo- (9CI) (CA INDEX NAME)

RN 175461-42-4 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-pyridinylmethoxylimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175461-43-5 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-furanylmethoxylimino]-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 175462-31-4 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(1-methyl\*thoxy)imino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175462-33-6 CAPLUS
CN 1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(cyclopentyloxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro4-oxo- (9Cl) (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued

RN 175461-44-6 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[carboxy(3,4-dihydroxyphenyl)methoxy]imino]-1-pytrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175461-45-7 CAPLUS
CN 1,8-Naphthyriddine-3-carboxylic acid, 7-[3-{aminomethyl}-4-[{(5-fluoro-2-benzothiazolyl)methoxy}imino|-1-pyrrolidinyl]-1-cyclopropyl-6-fluorc-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175462-23-4 CAPLUS

(N 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(1,1-dimethyl)ethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9C1) (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued

RN 175462-34-7 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(tetrahydro-3-furanyl)oxy]imino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175462-35-8 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(cyclopropylmethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 175462-36-9 CAPLUS
CN 1,8-Naphthyridine-3-cerboxylic acid, 7-[3-(aminomethyl)-4-[(2-methylpropxyl)pinino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 175462-37-0 CAPLUS CN 1,8-Naphthyridine-3-carboxylic acid, 7-{3-{aminomethyl}-4-{{2-propynyloxy}imino}-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175462-38-1 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-butynyloxy)imino]-1-pytrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ &$$

RN 175462-39-2 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(methoxymethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro4-oxo- [9C1] (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 175463-27-1 CAPLUS

1,8-Naphthyridine-3-carboxylic acid, 7-[3-{aminomethyl}]-4-(ethoxyimino)-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

RN 175463-28-2 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(phenoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAMS)

RN 210353-53-0 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4-(methoxyimino)-1-pyrrolldinyl]-1-cyclopropyl-6-fluoro-1,4-dibydro-4-oxo-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1 CRN 175463-14-6 CMF C18 H20 F N5 04

Double bond geometry as shown.

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 175462-40-5 CAPLUS
CN 1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[{2-chlorosthoxy)imino}-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175463-14-6 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4(methoxylimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 175463-26-0 CAPLUS

(N 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(hydroxylmino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CM 2 CRN 75-75-2 CMF C H4 03 S

но— s— снз

RN 210353-54-1 CAPLUS CN 1,8-Maphthyridine-3-carboxylic acid, 7-[(4E)-3-(aminomethyl)-4-(methoxylinio)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 210353-55-2 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-{3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monomethanesulfonate, trihydrate (9CI) (CA INDEX NAME)

CRN 175463-14-6 CHF C18 H20 F N5 O4

Double bond geometry as shown.

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

2

CRN 75-75-2 CMF C H4 03 S

210353-56-3 CAPLUS

1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
monomethanesulfonate, hydrate (2:3) (9CI) (CA INDEX NAME)

CH 1

CRN 175463-14-6 CMF C18 H20 F N5 O4

Double bond geometry as shown.

CH

CRN 75-75-2

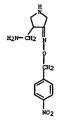
L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN CMF C H4 03 S (Continued)

175463-48-6P 175463-49-7P 175463-50-0P
175463-51-1P 175463-52-2P 175463-53-3P
175463-51-1P 175463-55-5P 175463-56-6P
175463-7-7P 175463-55-6P 175463-76-0P
175463-71-1P 175463-78-2P 175463-78-3P
175463-71-1P 175463-78-2P 175463-78-3P
175463-80-6P 175463-85-1P 175463-91-9P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of 7-(4-aminomethyl-3-methoxyiminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-4-cwc-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid and related compds. as antibacterials)
175463-48-6 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, C-(phenylmethyl)oxime, dihydrochloride (SCI) (CA INDEX NAME)

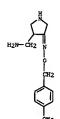
●2 HC1

175463-49-7 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-[(4-nitrophenyl)methyl]oxime, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



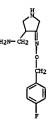
175463-50-0 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-{(4-methoxyphenyl)methyl]oxime, dibydrochloride (9CI) (CA INDEX NAME)



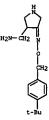
●2 HC1

175463-51-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-[(4-fluorophenyl)methyl]oxime, dihydrochioride (9CI) (CA INDEX NAME)

L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN



175463-52-2 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-[[4-(1,1-dimethyl)phenyl]methyl)oxime, dihydrochloride [9CI] (CA INDEX NAME)



175463-53-3 CAPLUS
Benzonitrile, 2-[[[[4-{aminomethyl})-3-pyrrolidinylidene]amino]oxy]methyl]-, dibydrochloride (9CI) (CA INDEX NAME)

ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

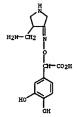
●2 HC1

175463-54-4 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-(3-pyridinylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

175463-55-5 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(3-furanylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) pyrrolidinylidene]amino]oxy]-3,4-dihydroxy-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

175463-70-4 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-(1,1-dimethylethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

175463-71-5 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, 0-3-butynyloxime, dihydrochloride (9CI) (CA INDEX NAME)



●2 HC1

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L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

●2 HC1

175463-56-6 CAPLUS
3-Pyrrolidinone, 4-{aminomethyl}-, O-[(5-fluoro-2-benzothizzolyl)methyl]oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

175463-57-7 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(1,3-benzodioxol-5-ylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

175463-58-8 CAPLUS Benzeneacetic acid,  $\alpha$ -{{[4-(aminomethy1)-3-

ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

175463-72-6 CAPLUS
3-Pyrrolidinone, 4-{aminomethy1}-, 0-(1-methylethyl)oxime, dihydrochloride
(9CI) (CA INDEX NAME)

●2 HCl

175463-76-0 CAPLUS
3-Pyrrolidinone, 4-{aminomethyl}-, 0-(cyclopropylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)



175463-77-1 CAPLUS
3-Pyrrolidinone, 4-{aminomethyl}-, 0-(2-methylpropyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

#### 6/6/06 10692640

ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 175463-78-2 CAPLUS 3-Pyrrolidinone, 4-(sminomethyl)-, O-2-propynyloxime, dihydrochloride (9CI) (CA INDEX NAME)

#### ●2 HCl

175463-79-3 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(methoxymethyl)oxime, dihydrochloride
(SCI) (CA INDEX NAME)

175463-80-6 CAPLUS

3-Pyrrolidinone, 4-(aminomethyl)-, 0-(2-chloroethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

#### ●2 HC1

175463-85-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, bis(trifluoroacetate)
(9CI) (CA INDEX NAME)

ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS On STN CM 1 (Continued)

CM 2

CRN 76-05-1 CMF C2 H F3 O2

175463-91-9 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-ethyloxime, bis(trifluoroacetate)
9CI) (CA INDEX NAME)

CH 1

CRN 175463-90-8 CMF C7 H15 N3 O

CM 2

CRN 76-05-1 CMF C2 H F3 02

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 1998:471466 CAPLUS
DOCUMENT NUMBER: 129:122580
TITLE: Preparation of quinoline(or nag

129:122580
Preparation of quinoline(or naphthyridine)-3-carboxylic acids such as 7-{4-sminomethyl-3-methyloxytminopyrrolidin-1-yl}-1-cyclopropyl-6-fluoro-4-coxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid as antibacterials
Hong, Chang Yong, Kim, Young Kwan; Kim, Se Ho; Chang, Jay Hyok; Choi, Hoon; Nam, Do Hyun; Kim, Ae Ri; Lee, Jin Hwar Park, Ki Sook
LG Chemical Ltd., S. Korea
U.S., 64 pp., Cont.-in-part of U. S. 5,633,262.
CODEN: USXXXAM
Patent

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

Patent English 3

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5776944	A	19980707	US 1997-825992	19970404
KR 131999	B1	19980417	KR 1994-13604	19940616
KR 222082	B1	19991001	KR 1994-39915	19941230
KR 222083	B1	19991001	KR 1994-39930	19941230
CN 1114959	A	19960117	CN 1995-107008	19950615
CN 1058010	В	20001101		
US 5633262	À	19970527	US 1995-490978	19950615
RU 2120940	C1	19981027	RU 1995-109449	19950615
US 5698570	A	19971216	US 1997-791749	19970130
US 5840916	A	19981124	US 1997-825991	19970404
US 5869670	A	19990209	US 1998-49024	19980327
US 5962468	Ä	19991005	US 1998-188063	19981109
PRIORITY APPLN. INFO.:	••		KR 1994-13604 A	
			KR 1994-39915 A	
			KR 1994-39930 A	
				2 19950615
				2 19970404
OTHER SOURCE(S):	MADDAT	129:122580	US 1998-49024 A	1 19980327
GI	natra:	125: 122580		

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

The title compds. [I] R = H, Me, NH2; Q = CH, CF, CCI, C(OH), C(Me), C(OMe), N, RI = cyclopropyl, Et, (un)substituted Ph; R2 = H, C1-4 alkyl, cyclopropyl, etc., R3, R4 = H, C1-3 alkyl, R3RM = e ringl, having an excellent antibacterial activity, were prepared More specifically, the present invention relates to 7-(4-aninomethyl-3-methyloxyiminopyrrolidin-1-y1)-1-cyclopropyl-6-fluoro-4-cxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid (II) or its isomers, which was prepared by reacting a quinclone III (X = halo) with a pyrrolidine oxime IV in the presence of an acid acceptor. (2)-II isomer has a superior antibacterial activity to the (E)-II isomer (as the free form or as its methanesulfonate) with, e.g., MIC of < 0.008 µg/mL against Staphylococcus aureus 6538p.
175461-38-8P 175461-39-9P 175461-40-2P

ANSVER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
175461-44-19P 175461-42-4P 175461-43-5P
175461-44-69 175461-43-7P 175462-23-6P
175462-31-4P 175462-32-5D 175462-33-6P
175462-31-7P 175462-35-8P 175462-33-6P
175462-37-7D 175462-38-8P 175462-39-2P
175462-40-5P 175463-28-2P 210353-53-0P
210353-54-1P 210353-55-2P 210353-53-0P
210353-54-1P 210353-55-2P 210353-55-3P
RLI BAC (Riological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use);
BIOL (Biological activity or effector, except adverse); BSU (Biological activity

175461-36-6 CAPLUS 1.8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[{(4-methoxyphenyl)methoxylimino}-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175461-37-7 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[4-(1,1-dimethylethyl)phenyl]methoxylimino]-1-pytrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

175461-41-3 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-{3-(aminomethyl)-4--{1,3-benzodioxol-5-ylamethoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

175461-42-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-pyridinylnethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9C1) (CA INDEX NAME)

175461-43-5 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-furanylmethoxyliatno]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

175461-38-8 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-[aminomethyl]-4-([[4-fluoropheny])methoxy]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

175461-39-9 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-{3-(aminomethyl)-4-[{(4-nitrophenyl)methoxy]imino]-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

175461-40-2 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-{3-(aminomethyl)-4-{{(2-cyanophanyl)methoxylimino}-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

175461-44-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-{aminomethyl}-4-[{carboxy(3,4-dihydroxyhenyl)methoxy}]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydroxyhenyl)methoxy (CI) (CA INDEX NAME)

175461-45-7 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-{3-{aminomethyl}-4-[{(5-fluoro-2-beazothiazolyl)methoxy|imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175462-23-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[{1,1-dimethyle-hoxylimino}-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

HD2 - N- OBU-E

RN 175462-31-4 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[{1-methylethoxylimino}-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

HO<sub>2</sub>C NH<sub>2</sub>NH<sub>2</sub> CH<sub>2</sub>-NH<sub>2</sub>

RN 175462-32-5 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(cyclobutyloxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro4-oxo- (9CI) (CA INDEX NAME)

HO<sub>2</sub>CH<sub>2</sub>-NH<sub>2</sub>

RN 175462-33-6 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(cyclopentyloxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

N-0Bu-i

RN 175462-37-0 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-{3-(aminomethyl)-4-[(2-propynyloxy)ninon]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175462-38-1 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-butynyloxylimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9c1) (CA INDEX NAME)

HO<sub>2</sub> N=0-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH

RN 175462-39-2 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(methoxymethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro4-oxo- (9Cl) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

HO<sub>2</sub>C CH<sub>2</sub>-NH<sub>2</sub>

RN 175462-34-7 CAPLUS CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-{aminomethyl}-4-[{{tetrahydro-3-furanyl)oxy|jmino}-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

HO<sub>2</sub>C CH<sub>2</sub>-NH<sub>2</sub>

RN 175462-35-8 CAPLUS
CN 1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(cyclopropylmethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4dihydro-4-oxo- (9CI) (CA INDEX NAME)

HO2C P CH2-NH2

RN 175462-36-9 CAPLUS

(N 1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(2-methylpropoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (SCI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

N-0-CH2-OMe

RN 175462-40-5 CAPLUS
CN 1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(2-chloroethoxy)imino]-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

RN 175463-14-6 CAPLUS
CN 1,8-Maphthyridine-3-carboxylic acid, 7-[(4Z)-3-(aminomethyl)-4(methoxylimino)-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Double bond geometry as shown.

HO<sub>2</sub>C NH<sub>2</sub> OMe

RN 175463-26-0 CAPLUS

(1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(hydroxyimino)-1-pytrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

175463-27-1 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(athoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175463-28-2 CAPLUS
1.8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(phenoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1.4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

210353-53-0 CAPLUS
1,8-Naphthyridina-3-carboxylic acid, 7-[(42)-3-(aminomethyl)-4(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
monomethanesulfonate (SCI) (CA INDEX NAME)

CRN 175463-14-6 CMF C18 H20 F N5 O4

ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN CRN 175463-14-6 CMF C18 H20 F N5 O4 (Continued)

Double bond geometry as shown.

CM 2

CRN 75-75-2 CMF C H4 03 S

210353-56-3 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(methoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, monomethanesulfonate, hydrate (2:3) (9CI) (CA INDEX NAME)

CRN 175463-14-6 CMF C18 H20 F N5 O4

Double bond geometry as shown.

CM. 2

CRN 75-75-2

Page 25 saeed

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Double bond geometry as shown.

210353-54-1 CAPLUS

1,8-Naphthyridine-3-carboxylic acid, 7-{(4E)-3-(aminomethyl)-4(methoxy;mino)-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo(9CI) (CA INDEX NAME)

Double bond geometry as shown.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ \text{HO}_2\text{C} & & \\ & & & \\ \end{array}$$

210353-55-2 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(methoxyimino)-1-pyrcolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-,
monomethanesulfonate, trihydrate (9CI) (CA INDEX NAME)

CM 1

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN CMF C H4 03 S

175463-48-6P 175463-49-7P 175463-50-0P
175463-51-1P 175463-52-2P 175463-53-3P
175463-51-1P 175463-55-5P 175463-53-3P
175463-51-7P 175463-58-8P 175463-70-4P
175463-71-1P 175463-78-2P 175463-79-3P
175463-80-6P 175463-85-1P 175463-19-3P
175463-80-6P 175463-85-1P 175463-91-9P
RI: RCT (Reactant), SPM (Synthetic preparation), PREP (Preparation); RACT (Reactant or reagent)
(Reactant or Capeus)
(Reactant or Capeus)
175463-48-6 CAPUS
3-2Pyrrolldinone, 4-(aminomethyl)-, O-(phenylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

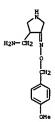
●2 HC1

175463-49-7 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-[(4-nitrophenyl)methyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

■2 HC

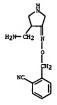
RN 175463-50-0 CAPLUS
CN 3-Pyrrolidinone, 4-(aminomethyl)-, O-[(4-methoxyphenyl)methyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)



●2 HC1

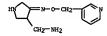
RN 175463-51-1 CAPLUS
CN 3-Pytrolidinone, 4-(aminomethyl)-, O-[(4-fluorophenyl)methyl]oxime, dihydrochloride (SCI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



●2 HCI

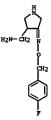
RN 175463-54-4 CAPLUS
CN 3-Pyrrolidinone, 4-(aminomethyl)-, O-(3-pyridinylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)



●2 HC1

RN 175463-55-5 CAPLUS
CN 3-Pyrrolidinone, 4-(aminomethyl)-, 0-(3-furanylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



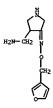
●2 HC1

RN 175463-52-2 CAPLUS
CN 3-Pyrrolidinone, 4-(aminomethyl)-, O-[(4-(1,1-dimethylethyl)phenyl]methyl]oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 175463-53-3 CAPLUS
CN Benzonitrile, 2-[{[{4-{aminomethyl}}-3-pyrrolidinylidene]amino]oxy]methyl}-, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued



●2 HC1

RN 175463-56-6 CAPLUS
CN 3-Pyrrolidinone, 4-(aminomethyl)-, 0-[(5-fluoro-2-benzothiazolyl)methyl]oxime, dihydrochloride (9CI) (CA INDEX NAME)

$$\underset{\mathbb{R}^{N-CH_2-0-N}}{ \underset{\mathbb{R}_{2^{N-CH_2}}}{ \overset{\mathbb{C}}{\underset{\mathbb{R}_{2^{N-CH_2}}}{ \overset{\mathbb{C}}{\underset{\mathbb{C}}}} }} } NH}}}}}}$$

●2 HC1

RN 175463-57-7 CAPLUS
CN 3-Pyrrolidinone, 4-(aminomethyl)-, 0-(1,3-benzodioxol-5-ylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 175463-58-8 CAPLUS
CN Benzeneacetic acid, α-[[[4-(aminomethyl)-3-pyrrolidinylidene]amino]oxy]-3,4-dihydroxy-, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

175463-70-4 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-(1,1-dimethylethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

175463-71-5 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-3-butynyloxime, dihydrochloride (9CI)
(CA INDEX NAME)

ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN



●2 HC1

175463-78-2 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-2-propynyloxime, dihydrochloride (9C1) (CA INDEX NAME)

●2 HC1

175463-79-3 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(methoxymethyl)oxime, dihydrochloride
(9CI) (CA INDEX NAME)

●2 HC1

175463-80-6 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(2-chloroethyl)oxime, dihydrochloride
(9C1) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

175463-72-6 CAPLUS
3-Pytrolidinone, 4-{aminomethyl}-, O-{1-methylethyl}oxime, dihydrochloride
{9CI} (CA INDEX NAME)

● 2 HC1

175463-76-0 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-(cyclopropylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

175463-77-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-(2-methylpropyl)oxime,
dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

●2 HC1

175463-85-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, bis(trifluoroacetate)
(9CI) (CA INDEX NAME)

CRN 175463-84-0 CMF C6 H13 N3 O

CM 2

175463-91-9 CAPLUS 3-Pyrrolidinone, 4-(aminomethyl)-, O-ethyloxime, bis(trifluoroacetate) (SCI) (CA INDEX NAME)

CH 1

CRN 175463-90-8 CMF C7 H15 N3 O

L7 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

CM. 2

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
197143-48-9P 197143-49-0P 197143-50-3P
197143-51-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIO (Biological study); PERF (Preparation)
(prepn. of antibacterial aminomethyl(oximno)pyrrolidinylquinolinones)
175463-14-6 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[(4Z)-3-(aminomethyl)-4-(methoxylimnio)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

H020

197143-43-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[(42]-3-(aminomethyl)-4-(ethoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

197143-44-5 CAPLUS
1,8-Maphthyridina-3-carboxylic acid, 7-[3-(aminomethyl)-4-(propoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

DOCUMENT NUMBER: TITLE:

L7 ANSWER 13 OF 14

ACCESSION NUMBER:

1997:638458 CAPLUS

127:307319

Novel F luoroquinolone Antibacterial Agents Containing
Oxine-Substituted (Aminomethyl)pyrrolidines: Synthesis
and Antibacterial Activity of 7-(4-(Aminomethyl)-3(methoxyimino)pyrrolidin-1-yl)-1-cyclopropyl
-6-fluoro-4-oxo-1,4-dihydro[1,8)naphthyridine-3carboxylic Acid (LB20304)

AUTHOR(S):

AUTHOR(S):

BOORPORATE SOURCE:

CORPORATE SOURCE:

AUTHOR (S):

CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

Title compds. I [X = CF, CCl, CH, COMe, N; R, Rl = H, Me; R2 = Me, Fr, CHMe2, CMe3, CH2Ph, Ph; R3 = H, NH2; R4 = Et, cyclopropyl, 2,4-F2CGH3] were prepared from the quinolone and the pyrrolidinone fragments. These fluoroquinolones possess potent antimicrobial activity against both Gram-neg, and Gram-pos. organisms, including methicillin-resistant Staphylococcus aureus (HRSA). The activity imparted to the substituted quinolone nucleus by the C-8 substituent was in the order F (C5-NH2) > F (C5-H) - Me). The case of Gram-neg. strains, activity was in the order F (C5-HE3) > naphthyridine > F (C5-H) > H > Cl > CMe. The advantages provided by the newly introduced oxime group of the quinolones were clearly demonstrated by their comparison to a desoximino compound in addition, the oxime mostly greatly improved the pharmacokinetic parameters of the novel quinolones. LB20304 (I, X = N, R, R, R, R, H, R = Hs, R4 = cyclopropyl) showed the best in vivo efficacy and pharmacokinetic profile in animals, as well as good phys. properties.

I

L7 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

197143-45-6 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[{1-methylethoxy)imino|-1-pyrrolidinyl|-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, (2)- (9CI) (CA INDEX NAME)

197143-46-7 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(1,1-dimethylethoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dibydro-4-oxo-, (2)- {9Cl} (CA INDEX NAME)

Double bond geometry as shown.

197143-47-8 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(phenylmethoxylimino]-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, (2)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

197143-48-9 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(phenoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, (Z)- (9C1) (CA INDEX NAME)

Double bond geometry as shown.

197143-49-0 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(hydroxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

197143-50-3 CAPLUS 1,8-Maphthyridine-3-carboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-7-[3-(methoxyinino)-4-[(methylamino)methyl]-1-pyrrolidinyl]-4-oxo-, (2)-

ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

●2 HC1

197143-53-6 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(1-methylethyl)oxime, dihydrochloride, (2)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

●2 HC1

197143-54-7 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(1,1-dimethylethyl) oxime, dihydrochloride, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

●2 HC1

197143-55-8 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(phenylmethyl)oxime, dihydrochloride, (2)- (921) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (9CI) (CA INDEX NAME) (Continued)

Double bond geometry as shown.

197143-51-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 1-cyclopropyl-7-[3[(dimethylamino) methyl]-4-[methoxyimino) -1-pyrrolidinyl]-6-fluoro-1,4dihydro-4-oxo-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

IT 197143-52-5 197143-53-6 197143-54-7
197143-55-8
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation of antibacterial
aminomethyl(oximino)pyrrolidinylquinolinones)
RN 197143-52-5 CAPLUS
CN 3-Pyrrolidinone, 4-(aminomethyl)-, O-propyloxime, dihydrochloride, (Z)(9CI) (CA INDEX NAME)

Double bond geometry as shown.

L7 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

●2 HC1

IT 197143-35-4P

RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of antibacterial
aminomethyl (oximino) pyrrolidinone;
RN 197143-35-4 CAPLUS

CN 3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, dihydrochloride, (32)(3CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 14 OF 14
ACCESSION NUMBER:
DOCUMENT NUMBER:
1111E:
1124:289515

INVENTOR(5):
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SOURCE:

DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INSURATION:
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FAMILY ACC. NUM. COUNT:
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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

THIERT THE CHESTION.				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 688772	A1	19951227	EP 1995-250143	19950614
XP 688772	B1	19990506		
R: CH, DE, DI	, FR, GB	, IT, LI,	NL, SE	
KR 131999	B1	19980417	KR 1994-13604	19940616
KR 222082	B1	19991001	KR 1994-39915	19941230
KR 222083	B1	19991001	KR 1994-39930	19941230
CA 2151890	λλ	19951217	CA 1995-2151890	19950615
CA 2151890	C	19990112		
CN 1114959	À	19960117	CN 1995~107008	19950615
CN 1058010	В	20001101		
JP 08041050	A2	19960213	JP 1995-149125	19950615
JP 2742248	B2	19980422		
RU 2120940	C1	19981027	RU 1995-109449	19950615
PRIORITY APPLN. INFO.:			KR 1994-13604 A	19940616
			KR 1994-39915 A	19941230
				19941230
OTHER SOURCE(S):	MARPAT	124:28951		

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Title compds. I [Q = CH, CF, CCl, C(OH), C(Me), C(OMe), N; R = H, Me, NH2; Rl = cyclopropyl, Et, fluoro-substituted phenyl, R2 = H, Cl-C4 alkyl, C3-C6 alkypl, (substituted) benzyl, etc., R3, R4 = H, Cl-C3 alkyl, etc.] were prepared Reaction of II with III.2CF3COOH in the presence of 1,8-diazabicyclo[5.4.0]undec-l-ene in MeCN under reflux afforded 85% I [Q = N; R, R3, R4 = H; R1 = cyclopropyl; R2 = Me] which showed MIC of 50.008 mg/aL against Staphylococcus aureus giorgio and Staphylococcus aureus 6538p, Staphylococcus aureus giorgio and Staphylococcus epidermidis 178 vs. 0.25 mg/mL with Ofloxacin.
173461-25-59; 173461-36-65; 173461-37-79; 173461-41-39; 173461-43-99; 173461-40-29; 173461-41-39; 173461-43-99; 173461-40-29; 173462-31-49; 173462-33-89; 173462-33-89; 173462-31-49; 173462-33-89; 173462-33-69; 173462-31-49; 173462-31-46; 173462-36-99; 173462-31-46;

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

175461-36-6 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[4-methoxyphenyl)methoxy]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175461-37-7 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[[4-[1,1-dimethylethyl]]mathoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175461-38-8 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-[aminomethyl)-4-[[(4-fluorophenyl)amthoxy]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

175461-39-9 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(4-nitrophenyl)methoxy]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

175461-40-2 CAPLUS
1.8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(2-cyanophenyl)methoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175461-41-3 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-{aminomethyl}-4-[(1,3-banzodixorl-5-ylmethoxy)!mino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

#### L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

175461-42-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-pyridinylmethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (3CI) (CA INDEX NAME)

175461-43-5 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-furanylmethoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175461-44-6 CAPLUS
1,8-Naphthyridina-3-carboxylic acid, 7-{3-{aminomethyl}-4-[carboxy{3,4-dihydroxyphenyl)mathoxy]imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

# L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

HO<sub>2</sub>C CH2-NH2

175461-45-7 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(5-fluoro-2-benzothiazolyl)nethoxylimino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dibydro-4-oxo- (9CI) (CA INDEX NAME)

(Continued)

175462-23-4 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(1,1-dimethylethoxylimino]-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175462-31-4 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[{1-methylethoxy|imino}-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(3C1) (CA INDEX NAME)

#### L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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#### 175462-32-5 CAPLUS

1/8-Waphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(cyclobutyloxylimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX MAME)

175462-33-6 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(cyclopentyloxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(SCI) (CA INDEX NAME)

175462-34-7 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[[(tetrahydro-3-furanyl)oxy]mino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

#### L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

175462-35-8 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(cyclopropylmethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4dibydro-4-oxo- (9CI) (CA INDEX NAME)

175462-36-9 CAPLUS
1,8-Msphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(2-methylpropxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175462-37-0 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(2-propynyloxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

0-CH2-C=CH CH2-NH2

175462-38-1 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-[(3-butynyloxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-cxo-(9Cl) (CA INDEX NAME)

о-сиг-сиг-с CH2-NH2

175462-39-2 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4[(mathoxymethoxy)imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro4-oxo- (9CI) (CA INDEX NAME)

0-CH2-OMe

175462-40-5 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-{aminomethyl}-4-[{2-chloroethoxy}imino]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (SCI) (CA INDEX NAME)

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

175463-28-2 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(phenoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

175463-48-6P 175463-49-7P 175463-50-0P
175463-51-1P 175463-52-2P 175463-53-3P
173463-54-4P 175463-55-5P 175463-56-6P
175463-7-7P 175463-55-69P 175463-70-4P
175463-71-1P 175463-78-2P 175463-79-3P
175463-71-1P 175463-78-2P 175463-79-3P
175463-80-6P 175463-85-1P 175463-91-9P
RL: RCT (Reactant): SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)
(preparation of novel 7-[(4-aminomethyl-3-alkoxyimino)pyprolidin-1-yl]quinoline-3-carboxylic acid derivs. as antibacterial agents)
175463-48-6 CAPUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(phenylmethyl)oxime, dihydrochloride
(9CI) (CA INDEX NAME)

●2 HC1

RN 175463-49-7 CAPLUS CN 3-Pyrrolidinone, 4-(aminomethyl)-, O-[(4-nitrophenyl)methyl]oxime,

17 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

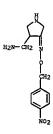
175463-14-6 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-{(42}-3-(aminomethyl)-4-(methoxylmino)-1-pyrrolidinyl}-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

175463-26-0 CAPLUS
1,8-Naphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(hydroxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo- (9C1) (CA INDEX NAME)

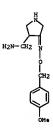
175463-27-1 CAPLUS
1,8-Maphthyridine-3-carboxylic acid, 7-[3-(aminomethyl)-4-(ethoxyimino)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dibydro-4-oxo- (9CI) (CA INDEX NAME)

ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN dihydrochloride (9CI) (CA INDEX NAME) (Continued)



●2 HC1

175463-50-0 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-[(4-methoxyphenyl)methyl]oxime, dihydrochoride (9CI) (CA INDEX NAME)



●2 HC1

175463-51-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-[(4-fluorophenyl)methyl]oxime, dihydrochloride (9CI) (CA INDEX NAME)

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L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

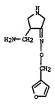
●2 HC1

175463-52-2 CAPLUS
3-Pyrrolidinone, 4-{aminomethyl}-, 0-{{4-{1,1-dimethyl}phenyl}methyl}oxime, dihydrochloride (9CI) (CA INDEX NAME)

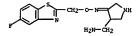


175463-53-3 CAPLUS
Benzonitrile, 2-[[[[4-(aminomethyl)-3-pyrrolidinylidene]amino]oxy]methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



175463-56-6 CAPLUS
3-Pyrrolidinone, 4-{aminomethyl}-, O-[(5-fluoro-2-benzothiazolyl)nethyl]oxime, dihydrochloride (9CI) (CA INDEX NAME)



●2 HC1

175463-57-7 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(1,3-benzodioxol-5-ylmethyl)oxime, dihydrochoride (9CI) (CA INDEX NAME)

●2 HC1

175463-58-8 CAPLUS
Benzeneacetic acid, a-[[(4-(aminomethyl)-3pyrrolidinylidene]amino]oxy)-3,4-dihydroxy-, dihydrochloride (9CI) (CA
INDEX NAME)

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L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

●2 HC1

175463-54-4 CAPLUS
3-Pyrrolidinone, 4-(sminomethyl)-, 0-(3-pyridinylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

175463-55-5 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(3-furanylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

●2 HC1

175463-70-4 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(1,1-dimethylethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

175463-71-5 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-3-butynyloxime, dihydrochloride (9CI)
(CA INDEX NAME)

●2 HC1

175463-72-6 CAPLUS
3-Pytrolidinone, 4-(aminomethyl)-, 0-(1-methylethyl)oxime, dihydrochloride
(9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

●2 HC1

175463-76-0 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(cyclopropylmethyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

175463-77-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(2-methylpropyl)oxime, dihydrochloride (9CI) (CA INDEX NAME)

ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN CM 1 .

CM 2

CRN 76-05-1 CMF C2 H F3 O2

175463-91-9 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-ethyloxime, bis(trifluoroacetate)
(9CI) (CA INDEX NAME)

CRN 175463-90-8 CMF C7 H15 N3 O

CH 2

CRN 76-05-1 CMF C2 H F3 O2

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ANSVER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) 175463-78-2 CAPLUS 3-Pyrrolidinone, 4-{aminomethyl}-, 0-2-propynyloxime, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

175463-79-3 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-(methoxymethyl)oxime, dihydrochloride
(9C1) (CA INDEX NAME)

●2 HC1

175463-80-6 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, 0-(2-chloroethyl)oxime, dihydrochloride
(9CI) (CA INDEX NAME)

●2 HC1

175463-85-1 CAPLUS
3-Pyrrolidinone, 4-(aminomethyl)-, O-methyloxime, bis(trifluoroacetate)
(9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)